

HIGH STRENGTH STEEL FOR INDUCTION HARDENING

ABSTRACT OF THE DISCLOSURE

A steel product which, while minimizing an increase in hardness after forging to ensure machinability and cold workability, is improved, for example, in fatigue strength in its nonhardened portion and is improved, in its hardened portion, in rolling resistance level, anti-pitting level, abrasion resistance, and fatigue strength. The high strength steel for induction hardening comprises, by mass, carbon (C): 0.5 to 0.7%, silicon (Si): 0.5 to 0.9%, manganese (Mn): 0.5 to 1.0%, chromium (Cr): not more than 0.4%, and sulfur (S): not more than 0.035%, with the balance consisting of iron (Fe) and unavoidable impurities, the steel being forged to produce a component at least a part of which is then inductively hardened before use.